

Portland Pipe Line Corporation)	Departmental
Cumberland County)	Findings of Fact and Order
South Portland, Maine)	Part 70 Air Emission License
A-197-70-A-I)	

After review of the Initial Part 70 License application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

FACILITY	Portland Pipe Line Corporation
LICENSE NUMBER	A-197-70-A-I
LICENSE TYPE	Initial Part 70 License
SIC CODES	5171
NATURE OF BUSINESS	crude petroleum storage facility
FACILITY LOCATION	30 Hill Street, South Portland
DATE OF LICENSE ISSUANCE	
LICENSE EXPIRATION DATE	

B. Emission Equipment

The following emission units are addressed by this Part 70 License:

EMISSION UNIT ID	UNIT CAPACITY	UNIT TYPE
#1, Storage Tank No. 3	6,300,000 gallons	crude petroleum storage tank
#3, Boiler	21 MMBtu/hr	fuel burning equipment
#4, Boiler	21 MMBtu/hr	fuel burning equipment
#5, Storage Tank No. 24	6,300,000 gallons	crude petroleum storage tank
#6, Storage Tank No. 25	6,300,000 gallons	crude petroleum storage tank
#7, Storage Tank No. 4	6,300,000 gallons	crude petroleum storage tank
#8, Storage Tank No. 10	5,880,000 gallons	crude petroleum storage tank
#9, Storage Tank No. 11	5,880,000 gallons	crude petroleum storage tank
#10, Storage Tank No. 12	5,880,000 gallons	crude petroleum storage tank
#11, Storage Tank No. 13	5,880,000 gallons	crude petroleum storage tank
#12, Storage Tank No. 26	11,256,000 gallons	crude petroleum storage tank
#13, Storage Tank No. 23	6,300,000 gallons	crude petroleum storage tank

#14, Storage Tank No. 22	6,300,000 gallons	crude petroleum storage tank
#15, Storage Tank No. 6	6,300,000 gallons	crude petroleum storage tank
#16, Storage Tank No. 5	6,300,000 gallons	crude petroleum storage tank
#17, Storage Tank No. 19	6,300,000 gallons	crude petroleum storage tank
#18, Storage Tank No. 20	6,300,000 gallons	crude petroleum storage tank
#19, Storage Tank No. 21	6,300,000 gallons	crude petroleum storage tank
#20, Storage Tank No. 18	11,256,000 gallons	crude petroleum storage tank
#21, Storage Tank No. 1	5,796,000 gallons	crude petroleum storage tank
#22, Storage Tank No. 2	5,796,000 gallons	crude petroleum storage tank
#23, Storage Tank No. 9	5,670,000 gallons	crude petroleum storage tank
#24, Storage Tank No. 8	5,670,000 gallons	crude petroleum storage tank
#25, Storage Tank No. 27	11,256,000 gallons	crude petroleum storage tank
#26, Storage Tank No. 28	11,256,000 gallons	crude petroleum storage tank
Degreaser	5 gallons	Misc Emission Unit

Portland Pipe Line Corp. has additional insignificant activities which do not need to be listed in the emission equipment table above.

C. Application Classification

The application for Portland Pipe Line Corp. does not include the licensing of increased emissions or the installation of new or modified equipment, therefore the license is considered to be an Initial Part 70 License issued under Chapter 140 for a Part 70 source. This license supercedes all previous air emissions licenses issued to Portland Pipe Line Corporation by the Department. All previous issued air licenses are no longer in effect.

II. EMISSION UNIT DESCRIPTION

A. Emission Units #3 and #4, Oil Boilers

Unit Size and Age

The boilers, designated as emission units #3 and #4, were manufactured by Cleaver Brooks with a maximum design heat input capacity of 21 MMBtu/hr firing #2 fuel oil. The boilers were installed in 1983, prior to the New Source Performance Standards (NSPS) Subpart Dc applicability date. The boilers have one burner firing fuel oil only. The boilers are used to heat the crude oil during the winter. The boilers typically operate only a few hours each year. Emissions from the boilers exit through a common single 50-ft. stack.

Streamlining

Portland Pipe Line Corporation accepts streamlining for opacity requirements. Chapter 101, Section 2(D) is applicable; however, the Best Practical Treatment (BPT) opacity limit in this license is more stringent.

Periodic Monitoring

Periodic monitoring shall consist of recordkeeping which includes records of hours of boiler operation and fuel use through purchase receipts indicating amount (gallons) and percent sulfur by weight.

Based on the type and amount of fuel for which the boilers were designed, there is no reasonable likelihood of the boilers to exceed the opacity limits. Therefore, periodic monitoring by the source for opacity in the form of visible emission testing is not required. However, neither the EPA nor the State is precluded from performing its own testing and may take enforcement action for any violations discovered.

B. Emission Unit #1, Units #5 - #26 Storage Tanks No. 1-6, 8-13, 18-28

Unit Size, Age, and Unit Control Equipment

The following crude petroleum storage tanks are welded steel tanks and are light green in color. The stored crude petroleum temperature ranges from 40°F to 90°F. Annual throughput varies in each tank.

Storage Tank No.	Date of Installation	Capacity (gallons)	Control Equipment, % efficiency	Control Equipment Model
#1, No. 3	1950	6,300,000	floating roof, >85%	C.B.&I. (Chicago Bridge & Iron)/ Horton
#5, No. 24	1965	6,300,000	floating roof, >85%	C.B. & I./ Horton
#6, No. 25	1965	6,300,000	floating roof, >85%	C.B. & I./ Horton
#7, No. 4	1950	6,300,000	floating roof, >85%	C.B. & I./ Horton
#8, No. 10	1941	5,880,000	floating roof, >85%	C.B. & I./ Wiggin Pontoon
#9, No. 11	1941	5,880,000	floating roof, >85%	C.B. & I./ Wiggin Pontoon
#10, No. 12	1941	5,880,000	floating roof, >85%	C.B. & I./ Wiggin Pontoon
#11, No. 13	1941	5,880,000	floating roof, >85%	C.B. & I./ Wiggin Pontoon
#12, No. 26	1941	11,256,000	floating roof, >85%	C.B. & I./ Horton #5
#13, No. 23	1960	6,300,000	floating roof, >85%	C.B. & I./ Horton
#14, No. 22	1955	6,300,000	floating roof, >85%	C.B. & I./ Horton
#15, No. 6	1950	6,300,000	floating roof, >85%	C.B. & I./ Horton
#16, No. 5	1950	6,300,000	floating roof, >85%	C.B. & I./ Horton
#17, No. 19	1953	6,300,000	floating roof, >85%	C.B. & I./ Horton

#18, No. 20	1953	6,300,000	floating roof, >85%	C.B. & I./ Horton
#19, No. 21	1955	6,300,000	floating roof, >85%	C.B. & I./ Horton
#20, No. 18	1971	11,256,000	floating roof, >85%	C.B. & I./ Horton #5
#21, No. 1	1941	5,796,000	floating roof, >85%	C.B. & I./ Wiggin Pontoon
#22, No. 2	1941	5,796,000	floating roof, >85%	C.B. & I./ Wiggin Pontoon
#23, No. 9	1944	5,670,000	floating roof with secondary seal (1996), >85%	C.B. & I./ Wiggin Hideck
#24, No. 8	1944	5,670,000	floating roof with secondary seal (1996), >85%	C.B. & I./ Wiggin Hideck
#25, No. 27	1966	11,256,000	floating roof, >85%	C.B. & I./ Horton #5
#26, No. 28	1969	11,256,000	floating roof, >85%	C.B. & I./ Horton #5

VOC RACT

Portland Pipe Line Corporation is in an attainment area for all US EPA designated criteria air pollutants except ozone, for which Cumberland County is designated as moderate nonattainment. Maine is currently part of the Ozone Transport Region (OTR), and thus, the entire State of Maine is subject to the nonattainment requirements for ozone. Chapter 134 of the Maine Air Regulations requires facilities that have the potential to emit forty (40) tons or more of VOC per calendar year apply VOC RACT (Reasonable Available Control Technology) to their applicable VOC emissions. Chapter 134 VOC RACT requirements are incorporated into this initial Part 70 license.

In accordance with MEDEP Chapter 134 Section 3(A)(1), Option A, the owner or operator must install and operate a system to capture and control VOC emissions such that the total VOC emissions do not exceed, on a daily basis, fifteen (15) percent of the uncontrolled daily VOC emissions. Portland Pipe Line Corporation's use of external floating roofs and primary seals meets the requirements of Chapter 134 by controlling VOC emissions such that VOC emissions do not exceed, on a daily basis, fifteen (15) percent of the uncontrolled daily VOC emissions.

Periodic Monitoring

Based on EPA TANKS 3.1 model, external floating roofs with primary seals between the roof and the tank shall ensure 85% or greater control efficiency for VOCs. Therefore, periodic monitoring for the crude oil tanks shall consist of monthly visual and annual (after cleaning of the tank seals) inspections and recordkeeping consisting of annual VOC emissions (annual total), annual throughput (annual total), and annual crude oil characteristics (including average type of stock; Reid vapor pressure; maximum true vapor pressure; stock storage temperature; and liquid density).

When calculating annual VOC emissions, standing storage and withdrawal loss of VOCs will be calculated based on methods presented in American Petroleum Institute, Manual of Petroleum Measurement Standard, Chapter 19, Section 2, Evaporative Loss from Floating Roof Tanks. Based on 11.0 billion gallons per year throughput at Portland Pipe Line Corp., the annual VOC emissions are estimated to be 94.7 tons per year.

C. Degreaser Unit

Unit Size and Age

The Graymills degreaser unit was manufactured and installed in 1991 and has a design capacity of 5 gallons.

Periodic Monitoring

Periodic monitoring for the degreaser units shall consist of recordkeeping including records of solvent added and removed.

D. Facility Emissions

Total Allowable Annual Emissions for the Facility

(used to calculate the annual license fee)

<u>Pollutant</u>	<u>TPY</u>
PM	0.42
PM ₁₀	0.42
SO ₂	1.8
NO _x	1.3
CO	0.13
VOC	94.7

III. AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 140, an existing Part 70 source shall be exempt from an impact analysis with respect to a regulated pollutant whose allowable emissions do not exceed the following:

<u>Pollutant</u>	<u>TPY</u>
PM	25
PM ₁₀	25
SO ₂	50
NO _x	100
CO	250

Based on facility license allowed emissions, Portland Pipe Line is below the emissions level required for modeling and monitoring.

ORDER

Based on the above Findings and subject to conditions listed below the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants the Part 70 License A-197-70-A-I, subject to the following conditions:

For each standard and special condition which is State Enforceable only, State-only Enforceability is designated with the following statement: **Enforceable by State-only**

STANDARD CONDITIONS

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions and this license;
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 140;
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The

Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both;

- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request; **Enforceable by State-only**
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 MRSA §353.
- (6) The Part 70 license does not convey any property rights of any sort, or any exclusive privilege;
- (7) The licensee shall maintain and operate all emission units and air pollution control systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions; **Enforceable by State-only**
- (8) The licensee shall maintain sufficient records, to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request or in accordance with other provisions of this license;
- (9) The licensee shall comply with all terms and conditions of the air emission license. The submission of notice of intent to reopen for cause by the Department, the filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for the renewal of a Part 70 license or amendment shall not stay any condition of the Part 70 license.
- (10) All terms and conditions are enforceable by EPA and citizens under the CAA unless specifically designated as state enforceable.
- (11) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license;
- (12) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:

- (a) perform stack testing under circumstances representative of the facility's normal process and operating conditions:
 - (i) within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions;
 - (ii) to demonstrate compliance with the applicable emission standards; or
 - (iii) pursuant to any other requirement of this license to perform stack testing.
- (b) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
- (c) submit a written report to the Department within thirty (30) days from date of test completion.

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- (13) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicates emissions in excess of the applicable standards, then:
 - (a) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
 - (b) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
 - (c) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

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- (14) Notwithstanding any other provision in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement.
- (15) Compliance with the conditions of this Part 70 license shall be deemed compliance with any Applicable requirement as of the date of license issuance and is deemed a permit shield, provided that:
 - (a) Such Applicable and state requirements are included and are specifically identified in the Part 70 license, except where the Part 70 license term or condition is specifically identified as not having a permit shield; or
 - (b) The Department, in acting on the Part 70 license application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the Part 70 license includes the determination or a concise summary, thereof.

Nothing in this section or any Part 70 license shall alter or effect the provisions of Section 303 of the CAA (emergency orders), including the authority of EPA under Section 303; the liability of an owner or operator of a source for any violation of Applicable requirements prior to or at the time of permit issuance; or the ability of EPA to obtain information from a source pursuant to section 114 of the CAA.

- (16) The licensee shall retain records of all required monitoring data and support information for a period of at least six (6) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the Part 70 license.
- (17) The licensee shall maintain records of all deviations from license requirements. Such deviations shall include, but are not limited to malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next working day, whichever is later, of such occasions and shall report the probable cause, corrective action, and any excess emissions in the units of the applicable emission limitation;
- (18) Upon the written request of the Department, the licensee shall establish and maintain such records, make such reports, install, use, and maintain such

monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.

- (19) The licensee shall submit quarterly reports of any required monitoring as required by the Department. All instances of deviations from Part 70 license requirements must be clearly identified in such reports. All required reports must be certified by a responsible official.
- (20) The licensee shall submit a compliance certification to the Department and EPA at least annually, or more frequent if specified in the Applicable requirement or by the Department. The compliance certification shall include the following:
 - (a) The identification of each term or condition of the Part 70 license that is the basis of the certification;
 - (b) The compliance status;
 - (c) Whether compliance was continuous or intermittent;
 - (d) The method(s) used for determining the compliance status of the source, currently and over the reporting period; and
 - (e) Such other facts as the Department may require to determine the compliance status of the source;
- (21) The Part 70 license shall be reopened for cause by the Department or EPA, prior to the expiration of the Part 70 license, if:
 - (a) Additional Applicable requirements under the CAA become applicable to a Part 70 major source with a remaining Part 70 license term of 3 or more years. However, no opening is required if the effective date of the requirement is later than the date on which the Part 70 license is due to expire, unless the original Part 70 license or any of its terms and conditions has been extended pursuant to Chapter 140;
 - (b) Additional requirements (including excess emissions requirements) become applicable to a Title IV source under the acid rain program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the Part 70 license;

(c) The Department or EPA determines that the Part 70 license contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Part 70 license; or

(d) The Department or EPA determines that the Part 70 license must be revised or revoked to assure compliance with the Applicable requirements.

The licensee shall furnish to the Department within a reasonable time any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the Part 70 license or to determine compliance with the Part 70 license.

(22) No license revision or amendment shall be required, under any approved economic incentives, marketable licenses, emissions trading and other similar programs or processes for changes that are provided for in the Part 70 license.

SPECIAL CONDITIONS

(23) Permit Shield for Non-Applicable Requirements

The following requirements have been specifically identified as not applicable based upon information submitted by the licensee in an application dated July 16, 1996.

SOURCE		CITATION	DESCRIPTION	BASIS FOR DETERMINATION
Boilers #3, #4	a.	40 CFR Part 60 Subpart Dc	Standards of Performance for Small industrial-Commercial-Institutional Steam Generating Units	commenced construction prior to June 9, 1989
facility	b.	Chapter 138	NOx RACT	facility is limited to less than 99.9 tons NOx /yr
facility	c.	Chapter 111	Petroleum Liquid Storage Vapor Control	facility does not have fixed roof storage tanks
facility	d.	40 CFR Part 60, Subpart J	Standards of Performance for Petroleum Refineries	facility is not considered a petroleum refinery

SOURCE		CITATION	DESCRIPTION	BASIS FOR DETERMINATION
Storage Tanks #1, #5 - #26	e.	40 CFR Part 60, Subpart K	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978	commenced construction prior to June 11, 1973
Storage Tanks #1, #5 - #26	f.	40 CFR Part 60, Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	commenced construction prior to May 18, 1978
Storage Tanks #1, #5 - #26	g.	40 CFR Part 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984	commenced construction prior to July 23, 1984
facility	h.	40 CFR Part 60, Subpart XX	Standards of Performance of Bulk Gasoline Terminals	facility is not considered a bulk gasoline terminal
facility	i.	40 CFR Part 60, Subpart GGG	Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries	facility is not considered a petroleum refinery
facility	j.	40 CFR Part 60, Subpart QQQ	Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	facility is not considered a petroleum refinery
facility	k.	40 CFR Part 63, Subpart Y	NESHAP for Marine Tank Vessel Loading Operations	facility does not load marine tank vessels
marine vessels	l.	na	na	marine vessels are not part of the Portland Pipe Line source

(24) Oil Boilers, Emission Units #3 and #4

- A. Each boiler shall not exceed a heat input rate of 21 MMBtu/hr determined by the #2 fuel oil firing rates into each boiler. [MEDEP Chapter 140, BPT]
- B. The sulfur content of the fuel oil fired in each boiler shall not exceed 0.5% by weight demonstrated by purchase records from the supplier. [MEDEP Chapter 140, BPT] **Enforceable by State-only**

C. A sulfur content of the fuel oil fired in each boiler shall be less than 2.0% by weight when burning fuel oil demonstrated by purchase records from supplier. [MEDEP Chapter 106]

D. Portland Pipe Line Corp. shall fire only #2 fuel oil in each boiler. [MEDEP Chapter 140, BPT] **Enforceable by State-only**

E. Emissions from each boiler shall not exceed the following limits:

<i>Pollutant</i>	<i>lb/MMBtu</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	0.12	MEDEP Chapter 103, Section 2(B)(1)(a)	-
PM ₁₀	0.12	MEDEP Chapter 140, BPT	Enforceable by State-only
NO _x	0.36	MEDEP Chapter 140, BPT	Enforceable by State-only

<i>Pollutant</i>	<i>lb/hr</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	2.5	MEDEP Chapter 140, BPT	Enforceable by State-only
PM ₁₀	2.5	MEDEP Chapter 140, BPT	Enforceable by State-only
SO ₂	10.7	MEDEP Chapter 140, BPT	Enforceable by State-only
NO _x	7.6	MEDEP Chapter 140, BPT	Enforceable by State-only
CO	0.80	MEDEP Chapter 140, BPT	Enforceable by State-only
VOC	0.20	MEDEP Chapter 140, BPT	Enforceable by State-only

	<i>Total for both Boilers</i>		
<i>Pollutant</i>	<i>TPY</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	0.42	MEDEP Chapter 140, BPT	Enforceable by State-only
PM ₁₀	0.42	MEDEP Chapter 140, BPT	Enforceable by State-only
SO ₂	1.8	MEDEP Chapter 140, BPT	Enforceable by State-only
NO _x	1.3	MEDEP Chapter 140, BPT	Enforceable by State-only
CO	0.13	MEDEP Chapter 140, BPT	Enforceable by State-only
VOC	0.01	MEDEP Chapter 140, BPT	Enforceable by State-only

F. Portland Pipe Line Corp. shall operate each boiler such that the visible emissions from stack #1 do not exceed 30% opacity on a six (6) minute block average basis, for more than two (2) six (6) minute block averages in a 3-hour block period. [MEDEP Chapter 140, BPT]

G. Portland Pipe Line Corp. shall maintain records of annual #2 fuel use indicating the quantity of fuel consumed (gallons), the percent (%) sulfur content of the fuel by weight, and the heat content of the fuel, demonstrated by purchase records from the supplier. [MEDEP Chapter 140, BPT]

- H. Portland Pipe Line Corp. shall not exceed an annual #2 fuel oil cap of 50,000 gallons per year (12 month rolling total) demonstrated by fuel gauges on the fuel tank. [MEDEP Chapter 140, BPT] **Enforceable by State-only**
- I. Portland Pipe Line Corp. shall maintain records of hours of boiler operation. [MEDEP Chapter 140, BPT] **Enforceable by State-only**
- (25) Crude Petroleum Storage Tanks, Emissions Unit #1, Units #5 - #26
The following requirements apply to each storage tank individually, unless otherwise noted.
- A. All crude petroleum storage tanks shall be equipped, maintained, and operated such that:
1. There is an external floating roof and closure seal(s) between the roof edge and the tank wall; [MEDEP Chapter 140, BPT]
 2. The external floating roof and closure seal(s) will be maintained such that the cumulative area of gaps between the tank walls and primary seals does not exceed 212 cm² per meter of tank diameter; [MEDEP Chapter 140, BPT]
 3. The cover is uniformly floating on or above the liquid; [MEDEP Chapter 140, BPT]
 4. Visible holes, tears, or other openings in the surface of the cover shall be repaired within fifteen days of their discovery. Any liquid accumulated on the cover, from any such holes, tears, or openings in the cover shall be cleaned within fifteen days of such discovery; [MEDEP Chapter 140, BPT]
 5. All storage tank openings, except automatic bleeder vents, rim space vents, and leg sleeves are equipped with a cover, seal, or lid which is to be maintained in a closed position at all times except for when the device is in actual use; [MEDEP Chapter 140, BPT]
 6. All openings in the external floating roof, except for automatic bleeder vents, rim space vents, and leg sleeves, are to provide a projection below the liquid surface; [MEDEP Chapter 140, BPT]
 7. All automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports; [MEDEP Chapter 140, BPT]
 8. All rim vents are to be set to open only when the roof is being floated off leg supports or at the manufacturer's recommended setting; [MEDEP Chapter 140, BPT] and
 9. There are no visible or audible vapor leaks in the crude oil storage tanks or the related transfer piping. [MEDEP Chapter 140, BPT]
- B. Portland Pipe Line Corp. shall comply with the following source inspection requirements:

1. Monthly and annual inspections shall be conducted on crude oil tank covers, seals, transfer piping and fittings for the following:
 - a. The cover is uniformly floating on or above the liquid;
 - b. Visible holes, tears, or other openings in the surface of the cover and any resulting liquid accumulated on the cover; and
 - c. Any visible or audible vapor leaks in the crude oil storage tanks or the related transfer piping.[MEDEP Chapter 140, BPT]
 2. Monthly visual inspections shall be conducted on crude oil tank covers, seals, transfer piping and fittings. [MEDEP Chapter 140, BPT]
 - a. All detected holes, tears, or openings in the surface of the cover or seals (other than gaps created by the rising and lowering of the tank roof) detected during routine monthly inspections shall be repaired within fifteen days of their discovery. Any leaks taking longer than 15 days to repair shall be reported to the BAQ including a description of the leaking component and a schedule for conducting the repairs. [MEDEP Chapter 140, BPT]
 3. Detailed inspections shall be conducted annually during April or May (after the annual cleaning of the tank seals) for potential sources of fugitive VOC emissions, including covers, seals, transfer piping and fittings. [MEDEP Chapter 140, BPT]
 - a. All detected leaks, holes, tears, or openings in the surface of the cover or seals (other than gaps created by the rising and lowering of the tank roof) documented during the annual inspection shall be repaired by May 31 each year. Any leaks not repaired by May 31 shall be reported to the BAQ including a description of the leaking component and a schedule for conducting the repairs. [MEDEP Chapter 140, BPT]
 4. Discovery of leaks, holes or tears in the seals during the routine monthly or annual inspections does not constitute a violation. A violation occurs only if such leaks, holes or tears discovered are in excess of 212 cm² per meter of tank diameter and are not repaired within 15 days of discovery for routine inspections or by May 31 of each year for annual inspections or by a schedule approved by the Department. [MEDEP Chapter 140, BPT]
- C. The following records shall be maintained at the source and available for inspection:
1. Inspection log documenting routine monthly visual and annual inspections of covers, seals, transfer piping and fittings. [MEDEP Chapter 140, BPT]
 2. Inspection log documenting any detected leaks, holes, tears, or openings in the surface of the cover (other than gaps created by the rising and lowering of the tank roof) and the corrective action taken. [MEDEP Chapter 140, BPT]

3. Annual throughput specifying quantity and types of volatile petroleum liquids in the system by delivery. [MEDEP Chapter 140, BPT]
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4. Product storage temperatures and average annual maximum true vapor pressures or Reid vapor pressures of volatile petroleum liquids stored. [MEDEP Chapter 140, BPT]
5. Calculations showing annual VOC emissions from equipment seals, and transfer piping and fittings determined in accordance with American Petroleum Institute, Manual of Petroleum Measurement Standard, Chapter 19, Section 2, Evaporative Loss from Floating Roof Tanks (method of calculating VOC emission from tanks). [MEDEP Chapter 140, BPT]
Enforceable by State-only

D. The external floating roofs and primary shoe seals shall achieve an 85% or greater reduction in VOC emissions from uncontrolled or fixed roof tanks. Portland Pipe Line Corp. shall operate their crude oil storage tanks such that the total facility VOC emissions do not exceed, on a daily basis, fifteen (15)% of the uncontrolled daily VOC emissions. The percent VOC emission reduction is determined in accordance with American Petroleum Institute, Manual of Petroleum Measurement Standard, Chapter 19, Section 2, Evaporative Loss from Floating Roof Tanks (method of calculating VOC emissions from tanks) and/or EPA TANKS 3.1 model. [MEDEP Chapter 134, VOC RACT]

E. Portland Pipe Line Corp. shall be limited to an annual throughput of 11.0 billion gallons per calendar year of crude oil. [MEDEP Chapter 140, BPT]
Enforceable by State-only

F. Portland Pipe Line Corp. shall be limited to an annual average VOC emission limit of 94.7 tons per calendar year. [MEDEP Chapter 140, BPT]
Enforceable by State-only

G. Portland Pipe Line Corp. shall update the Department annually on industry innovations for secondary seals. [MEDEP Chapter 140, BPT] **Enforceable by State-only**

(26) Parts Washer

A. Portland Pipe Line Corp. shall label the parts washer with operational standards, equip the washer with cover if vapor pressure >15 mmHG at 100°F, close cover when not in use, drain parts for 15 seconds or longer, shall not degrease porous material, keep drafts <40 m/minute, repair leaks, and keep records of solvent added and removed. [MEDEP Chapter 130]

- B. Portland Pipe Line Corp. shall use solvent with a VOC content of 10% or less and shall maintain records of the percent VOC of the solvent added to the parts washer. [MEDEP Chapter 140, BPT] **Enforceable by State-only**

(27) Portland Pipe Line Corp. shall comply with the following:

A. Recordkeeping

For all of the recordkeeping, required by this license, the licensee shall maintain records of the most current six year period. [MEDEP Chapter 140]

1. The following records shall be maintained for the boilers:
 - a. Annual #2 fuel use indicating the quantity of fuel consumed (gallons), the percent (%) sulfur content of the fuel by weight, and the heat content of the fuel demonstrated by purchase receipts from the supplier and by fuel gauges on the fuel tank; and
 - b. Hours of boiler operation per month during the year.[MEDEP Chapter 140, BPT]
2. Records shall be maintained showing the average annual information for the crude oil storage tanks in order to calculate VOC standing and withdrawal losses:
 - a. Average type of stock (volatile petroleum liquids) stored in each tank;
 - b. Reid vapor pressure;
 - c. Maximum true vapor pressure;
 - d. Average stock storage temperature;
 - e. Average throughput in each tank;
 - f. Liquid density; and
 - g. Wind velocity.[MEDEP Chapter 140, BPT]
3. Portland Pipe Line Corp. shall calculate and record the annual total facility VOC emissions (tons) from the crude oil storage tanks. [MEDEP Chapter 140, BPT] **Enforceable by State-only**
4. Portland Pipe Line Corp. shall maintain the following records of monthly and annual storage tank and piping inspections:
 - a. Inspection log documenting inspections of covers, seals, transfer piping and fittings.
 - b. Log documenting any detected leaks, holes, tears, or openings in the surface of the cover (other than gaps created by the rising and lowering of the tank roof) and the corrective action taken.[MEDEP Chapter 140, BPT]

5. Portland Pipe Line Corp. shall maintain records of solvent added and removed for disposal from the parts washers indicating VOC percent by weight and annual records of total VOC emissions emitted in tons per year. [MEDEP Chapter 140, BPT]

(28) Reporting

- A. The licensee shall submit reports to the Bureau of Air Quality within 45 days from the end of each six month reporting period, ending December 31 and June 30 of each year, detailing the following:

1. A summary report of the monthly and annual inspection and repairs conducted in the period.
2. All instances of deviations from license requirements must be identified and provided to the Department in summary form at six month intervals.

[MEDEP Chapter 140]

- (29) The licensee shall annually report to the Department, in a specified format, fuel use, operating rates, use of materials and other information necessary to accurately update the State's emission inventory. [MEDEP Chapter 137] **Enforceable by State-only**

- (30) The licensee is subject to the following State regulations listed below.

Origin and Authority	Requirement Summary
Chapter 102	Open Burning
Chapter 109	Emergency Episode Regulation
Chapter 110	Ambient Air Quality Standard
Chapter 116	Prohibited Dispersion Techniques

- (31) Any document (including reports) required by this license must be signed by a responsible official. [MEDEP Chapter 140]

Portland Pipe Line Corporation)
Cumberland County)
South Portland, Maine)
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(32) This term of this license shall be five (5) years from the signature date below.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 1998.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
EDWARD O. SULLIVAN, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application July 16, 1996

Date of application acceptance July 23, 1996

Date filed with Board of Environmental Protection _____

This Order prepared by Sarah Anderson, Bureau of Air Quality